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	Filing Date		2007-11-02
	First Named Inventor	Klaus-Robert Muller	
	Art Unit	2624	
	Examiner Name	David Robert Vincent	
Attorney Docket Number		4385-060219	

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	9	B. V. NGUYEN; "An Application of Support Vector Machines to Anomaly Detection"; September, 2002, Final Project for CS681 Research in Computer Science – Support Vector Machines – Fall 2002; XP-002316052.	<input type="checkbox"/>

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10	F. DESOBRY et al.; "Support Vector-Based Online Detection of Abrupt Changes"; April 6, 2003, April 10, 2003, pages IV872-IV875, 2003 IEEE International Conference on Acoustics, Speech, and signal Processing ICASSP 2003, sections 103; XP-010641299.	<input type="checkbox"/>
11	D. ACHLIOPTAS et al.; "Sampling Techniques for Kernel Methods"; 2002; pages: 335-341; Advances in Neural Information Processing Systems; vol. 14.	<input type="checkbox"/>
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19	J. MA et al.; "Accurate online support vector regression"; 2003; pages 2683-2703; Neural Computation, Mass. Institute of Technology, vol. 15.	<input type="checkbox"/>
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27	N.A. SYED et al.; "Incremental learning with support vector machines"; 1999; SVM workshop, IJCAI.	<input type="checkbox"/>
28	D. TAX et al.; "Uniform object generation for optimizing one-class classifiers"; 2001; pages: 155-173; Journal for Machine Learning Research.	<input type="checkbox"/>
29	D. BARBARÁ et al.; "ADAM: Detecting intrusions by data mining"; 2001; pages: 11-16, Proc. IEEE Workshop on Information Assurance and Security.	<input type="checkbox"/>
30	D. DENNING; "An intrusion-detection model"; 1987; pages: 222-232; IEEE Transactions on Software Engineering.	<input type="checkbox"/>
31	C. DOWELL et al.; "The Computer Watch data reduction tool"; 1990; pages: 99-108; Proc. 13th National Computer Security Conference.	<input type="checkbox"/>

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32	E. ESKIN et al.; "A geometric framework for unsupervised anomaly detection: detecting intrusions in unlabeled data"; a Chapter of Applications of Data Mining in Computer Security, 2002; Kluwer.	<input type="checkbox"/>
33	R. JAGANNATHAN et al.; "Next-generation intrusion detection expert system (NIDES)"; 1993; Computer Science Laboratory, SRI International.	<input type="checkbox"/>
34	A. LAZAREVIC et al.; "A comparative study of anomaly detection schemes in network intrusion detection"; 2003; Proc. SIAM Conf. Data Mining.	<input type="checkbox"/>
35	G. LIEPINS et al.; "Intrusion detection: its role and validation"; 1992; pages: 347-355; Computers and Security, 11(4).	<input type="checkbox"/>
36	S. NOEL et al.; "Modern intrusion detection, data mining, and degrees of attack guilt"; a Chapter of Applications of Data Mining in Computer Security, 2002; Kluwer.	<input type="checkbox"/>
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39	B. SCHÖLKOPF et al.; "Estimating the support of a high-dimensional distribution"; 2001; pages: 1443-1471; Neural Computation 13(7).	<input type="checkbox"/>
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42	V. VAPNIK; "The nature of statistical learning theory"; 1995; pages: 138-146; Springer Verlag, New York.	<input type="checkbox"/>

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